

FEB 11 10 15 AM '99

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**Prepared for:**

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April 29, 1996  
PN: 22946-023-211:S15278

**DRAFT**  
**SUBSURFACE INVESTIGATION REPORT**  
**U-Haul Center # 79063**  
**270 South Main Street**  
**Rutland, Vermont**

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**SUBSURFACE INVESTIGATION REPORT  
U-HAUL CENTER #79063  
270 SOUTH MAIN STREET  
RUTLAND, VERMONT**

**1.0 INTRODUCTION**

This report presents the results of a Subsurface Investigation performed at the above-referenced property by Dames & Moore for Amerco Real Estate during the period of March 26, 1996 through April 29, 1996. The services performed included the installation of three overburden groundwater monitoring wells, collection of soil and ground water samples, and the analyses of three ground water samples (one from each monitoring well) for volatile aromatic compounds (VOCs) and total petroleum hydrocarbons (TPH). In addition, a Sensitive Receptor Survey was conducted to evaluate the need for long-term monitoring and treatment. The work was performed in accordance with the Preliminary Work Plan dated June 29, 1995, which was prepared by Dames & Moore at the request of Amerco Real Estate and approved by the Vermont Department of Environmental Conservation (DEC) on July 5, 1995.

The Subsurface Investigation was conducted to evaluate the potential for oil and hazardous materials to exist on the property at levels likely to warrant mitigation pursuant to regulations of the State of Vermont. Based on the observed condition of the property during this investigation, visual observation of soil and ground water samples obtained during this investigation, the results of field headspace screening of soil samples for VOCs, and the laboratory analyses of ground water samples obtained during this investigation, it appears unlikely that oil or hazardous materials are present in soil or ground water on the property at levels that would warrant further remedial response actions. Based on the findings of this investigation, neither long-term monitoring nor treatment would appear to be warranted at the subject property.

## 2.0 SITE DESCRIPTION AND HISTORY

The site is located at the northeast corner of the intersection of South Main Street and Cold River Road (See Figure 1). The abutting property to the north is occupied by a gasoline station, a clothing store and a car wash. A municipal/industrial equipment and supply store is located immediately to the east. A temporary personnel placement agency is located immediately to the south across Cold River Road. A used car and truck dealership, an auto parts store, a car dealership and a motel are located to the west across Main Street.

The topography in the general vicinity of the site slopes gently downward toward the west, and the nearest significant surface water body is Otter Creek, located approximately 4,500 feet to the west. Based on the local and regional topography, ground water flow in the vicinity of the site is expected to be to the west toward Otter Creek. Undeveloped land and wetlands are located between the car dealership to the west of the site and Otter Creek. Mussey Brook is located approximately 1,500 feet north of the site and discharges into Otter creek at a location approximately 5,000 feet northwest from the site. Municipal drinking water and sewer services are provided to the site and surrounding area. Municipal drinking water is obtained from the Rutland City Reservoir which is located in the northeast corner of the city.

On April 27, April 28 and May 1, 1995, Dames & Moore observed the closure of four underground storage tanks (USTs A,B,C, and D) at the subject site. The locations of the USTs are shown on Figure 2. The tanks were cleaned, excavated and transported off site for disposal, with the associated piping and pumps, by the MacIntyre Corporation of Middlebury, Vermont. Mr. Tim MacNamara of the VTDEC was on site on April 28 and May 1 to observe the condition of the USTs and the open excavations.

During the excavation of the tanks, Dames & Moore obtained soil and ground water samples for field screening for volatile organic compounds (VOCs) using a photoionization detector equipped with a 10.2 eV lamp and standard headspace

screening techniques. The screening results and field observations indicated no evidence of petroleum releases associated Tanks A, B and C. However, approximately 25 cubic yards of petroleum-impacted soils were excavated when Tank D was removed. Five soil samples obtained around the perimeter of the excavation were submitted to a qualified laboratory for VOC analyses by EPA Method 8260 and total petroleum hydrocarbon (TPH) analyses by EPA Method 418.1, as specified by Mr. MacNamara. VOCs were not detected in the five samples. TPH was detected in two of the five samples at 150 parts per million (ppm) and 160 ppm. Additional documentation of the tank closures was presented in the Initial Report of Underground Storage Tank Closures, dated May 23, 1995, which was prepared by Dames & Moore and submitted to the VTDEC at the request of Amerco Real Estate.

### 3.0 SUBSURFACE INVESTIGATION

Three soil borings (B-1, B-2 and B-3) were advanced at the subject property on March 29, 1996, using a truck-mounted drilling rig and hollow-stem augers. The borings were advanced to 13 feet below ground surface, and soil samples were obtained at selected depths by driving a split-spoon sampler ahead of the auger. Soil samples were placed in clean glass jars and were screened in the field for total volatile organic compounds (VOCs) using a photoionization detector (PID) and standard headspace screening techniques. VOCs were detected at 6.2 parts per million in the soil sample obtained from B-3 at a depth of 4 to 6 feet. VOCs were not detected in the other samples. The headspace screening results are shown on the boring logs in Appendix A. The boring locations are shown on Figure 2. In accordance with the Preliminary Work Plan and based on visual observations of the soil samples, auger cuttings, the headspace screening results and the ground water analytical data, as discussed below, soil samples were not submitted to the laboratory analyses.

On March 29, 1996, the three soil borings were completed as two-inch-diameter, PVC, flush-mounted, ground water monitoring wells (MW-1, MW-2, and MW-3). The well construction logs are presented in Appendix A. The wells were developed on March 29, 1996 by bailing minimum of three times the standing volume of water in each well, using dedicated PVC bailers. On April 1, 1996, the dedicated bailers were cleaned and used to purge a minimum of three times the standing volume of water prior to sampling. Ground water samples collected from each monitoring well using the dedicated bailer and were submitted to Alpha Analytical Labs (Westborough, Massachusetts) for benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl tertiary butyl ether (MTBE) analyses by EPA Method 8020 and total petroleum hydrocarbon (TPH) analysis by EPA Method 8100 Modified. No BTEX, MTBE or petroleum hydrocarbons were detected in the samples obtained from wells MW-1, MW-2 or MW-3. The complete laboratory report is presented in Appendix B.

Prior to purging the wells on April 1, 1996, the elevation of the top of the PVC well casing was surveyed relative to a local datum and the depth to ground water was measured in each well relative to the top of the PVC casing. The elevations and depths to ground water are shown on the well construction logs in Appendix A. The elevation of the ground water in each well on April 1, 1996 is shown on Figure 2. The elevation data indicate that ground water at the site flows to the west, as initially anticipated based on the local and regional topography.

#### 4.0 SENSITIVE RECEPTOR SURVEY

Dames & Moore (D&M) conducted a Sensitive Receptor Survey in accordance with the Preliminary Work Plan. Dames & Moore visited both the Town of Rutland and the City of Rutland municipal offices and confirmed that all downgradient properties are provided with city water and sewer services. D&M also inquired as to the existence of any private or public water supply wells in the area downgradient from the site. Both the City and Town of Rutland reported that there are no public water supply wells downgradient from the site, and that they have no records indicating the existence of private water supply wells in this area. Dames & Moore conducted interviews with employees at the Days Inn Motel and the Smith Buick/GMC auto dealership and determined these downgradient properties do not have basements and that there are no private water supply wells associated with these properties. Underground utilities and/or storm drains are located along Cold River Road and South Main Street; however, based on the soil and ground water analytical results, no adverse impacts to the utilities or storm drains are anticipated.

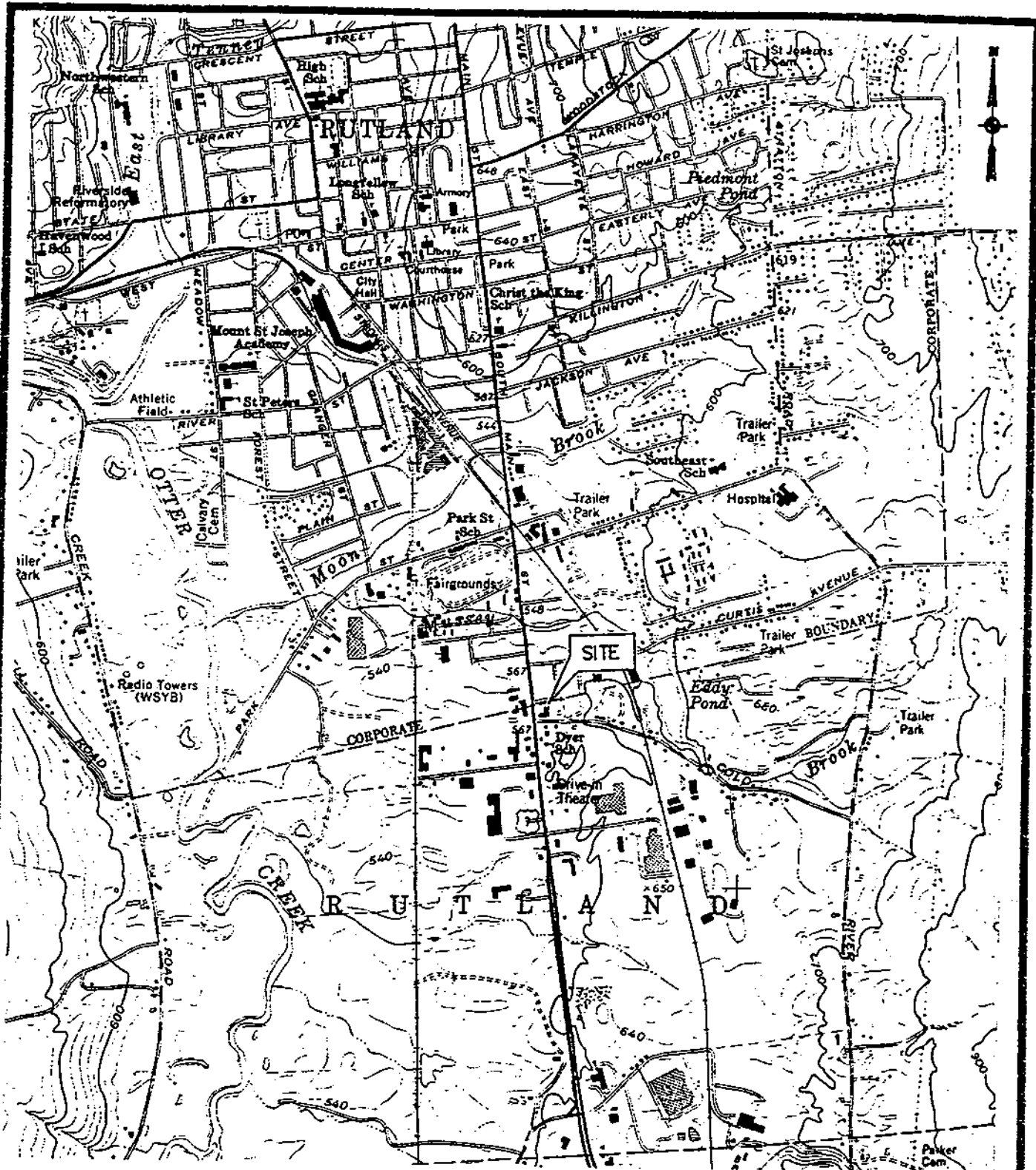


## 5.0 CONCLUSIONS AND RECOMMENDATIONS


Based on (1) the excavation and removal of the USTs, (2) the excavation and removal of approximately 25 cubic yards of petroleum-impacted soil encountered during the closure of Tank D, (3) the soil and ground water analytical results obtained following the excavation of the tanks, (4) the soil and ground water analytical results obtained during the subsequent Subsurface Investigation, and (5) the findings of the Sensitive Receptor Survey, soil and ground water conditions at the site do not appear to pose a significant risk to health, welfare or the environment. As a result, no further remedial response actions appear to be warranted, and therefore, no further remedial response actions are recommended.

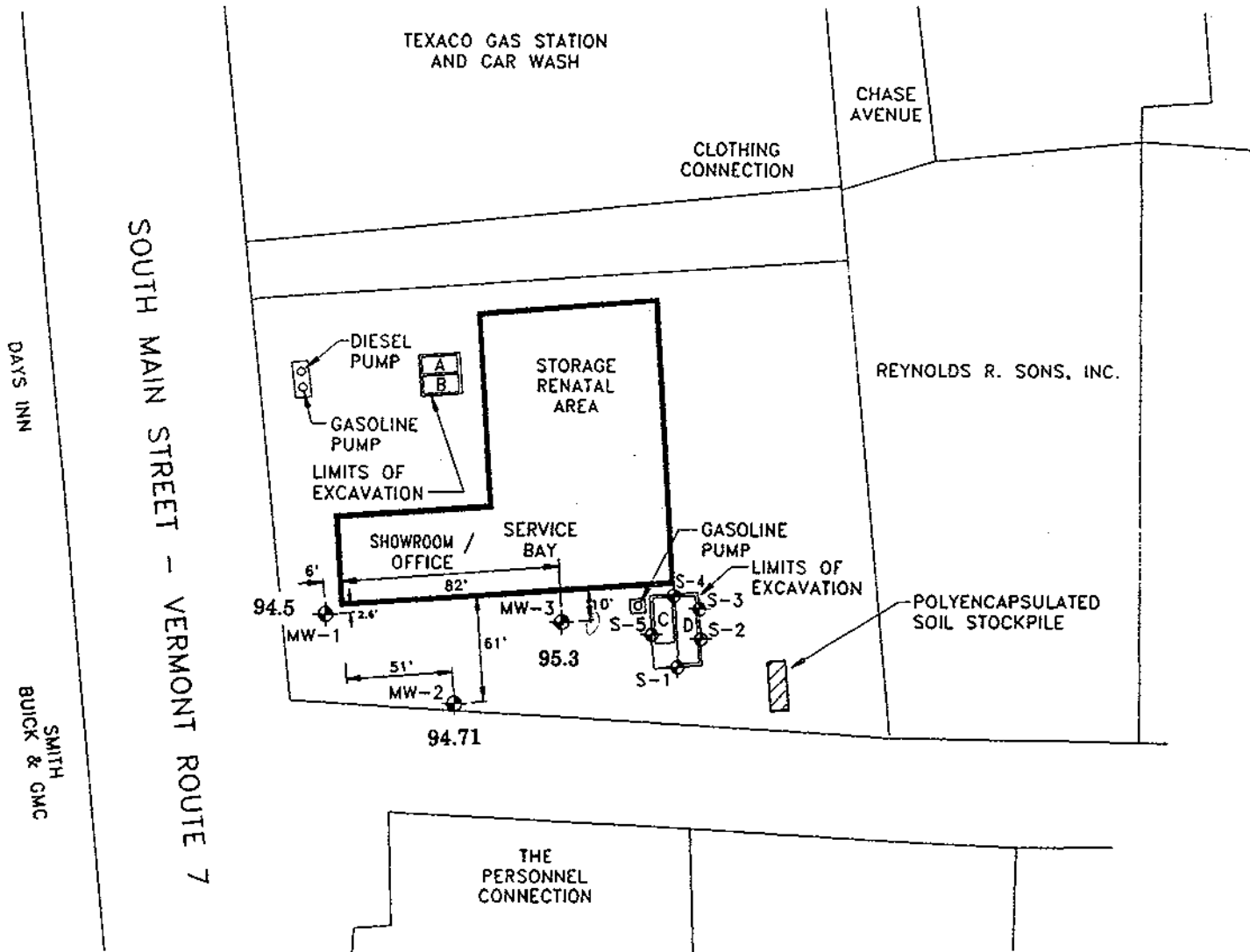
## 6.0 LIMITATIONS

This report is an instrument of service prepared by Dames & Moore for the exclusive use Amerco Real Estate. The purpose of the Subsurface Investigation was to determine whether soil and/or ground water conditions exist at the site at levels that would warrant further remedial response actions pursuant to the regulations of the State of Vermont. Use of the report for other purposes or by other parties is permitted without the express written permission of Dames & Moore. Opinions presented in this report are based upon information gathered during this investigation and from other activities described herein. In performing this investigation, Dames & Moore relied upon information provided by others. This information is presented as obtained; Dames & Moore cannot guarantee the accuracy of this information. The findings and opinions conveyed in this report do not constitute scientific certainties but rather probabilities based upon our professional judgment regarding the data gathered during this investigation. Dames & Moore cannot warrant or guarantee that not finding indicators of hazardous materials means that hazardous materials are not present at the site.




SOURCE: USGS TOPOGRAPHIC MAP  
RUTLAND QUADRANGLE  
7.5 MINUTE SERIES  
PHOTOREVISED 1988

TITLE		SITE LOCUS PLAN	
PROJECT		U-HAUL UST CLOSURES RUTLAND, VERMONT	
		 <b>DAMES &amp; MOORE</b>	
SCALE 1"=2000'	DWN. BY	MSM	JOB NO. 27946-023
DATE 4/96	APPR. BY	PJK	FIG. NO. 1



95.3 = ground water elev. measured 4/1/96  
(based on local datum)

TITLE				
SITE PLAN				
PROJECT				
U-HAUL UST CLOSURES RUTLAND, VERMONT				
 <b>DAMES &amp; MOORE</b>				
SCALE	NTS	OWN. BY	DAM	JOB NO. 27946-023
DATE	4/96	APPR. BY	PJK	FIG. NO. 2

**APPENDIX A**  
**BORING AND MONITORING WELL LOGS**

## SOIL BORING LOG

DAMES & MOORE, Inc.						Project: UHAUL				Boring No: B-1 Sheet: 1 of 1 Project Number: 29743-023 Chkd. By PJK			
						Location: Rutland, Vermont							
Drilling Co.: Cushing & Sons, Inc.						Boring Location:				Southwestern corner of Bld.			
Eng/Geol.: Kevan Carpenter						Purpose of Boring:				Monitoring Well			
						Date Started: 3/29/96				Date Completed: 3/29/96			
Depth (ft)	SAMPLE				SAMPLE DESCRIPTION	Field Screening PPM							
	NO.	Pen/Rec (in)	Depth (ft)	Blows per 6 in									
0				10	Asphalt surface								
	S1	24/20	0-2	12	Lt brown F-M Sand with trace silt Dry.	ND							
				8									
				8									
				8									
				4	Lt brown F-M Sand with trace clay, grades to F-Sand & Silt Damp.	ND							
				4									
				3									
5	S3	24/24	4-6	9	Lt brown F-Sand & Silt, grades to Silt and F-Sand Wet	ND							
				10									
				20									
				12									
	S4	24/24	6-8	12	Lt brown F-Sand & Silt. Wet	ND							
				13									
				15									
10													
15													
20													

EOB @ 13 ft.

Granular Soils		Cohesive Soils		<b>Notes:</b> Boring 1 was converted to monitoring well MW-1.
Blows/ft	Density	Blows/ft	Consistency	
0-2	V. Loose	<2	V. Soft	
4-10	Loose	2-4	Soft	
10-30	M Dense	4-8	M. Stiff	
30-50	Dense	8-15	Stiff	
>50	V. Dense	15-30	V. Stiff	
		>30	Hard	

## SOIL BORING LOG

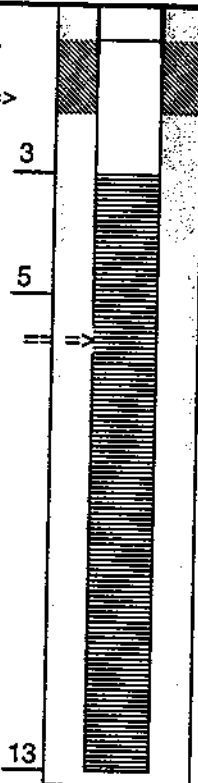
[illegible]

## SOIL BORING LOG

[illegible]



# WELL COMPLETION LOG

<b>DAMES &amp; MOORE, Inc.</b>	Project: <u>UHAUL Facility</u> Location: <u>Rutland, Vermont</u>	Well No.: <u>MW-1</u> Sheet: <u>1 of 1</u> Project Number: <u>29743-023</u> Chkd. By: <u>PJK</u>
Drilling Co.: <u>Cushing &amp; Sons</u> Eng/Geol.: <u>Kevan Carpenter</u>	Well Location: Purpose of Well: Date Started: <u>3/29/96</u>	<u>Southwester corner of Bld.</u> <u>Monitoring Well</u> Date Completed: <u>3/29/96</u>
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p>Ground Surface ==&gt;</p> <p>Bentonite Pellet Seal ==&gt;</p> <p>3</p> <p>5</p> <p>PVC Screen ==&gt;</p> <p>Sand Pack ==&gt;</p> <p>13</p> </div>  </div>		<p><b>DRILLING METHOD</b> Hollow Stem Auger</p> <p><b>REFERENCE ELEVATIONS</b>          Top of Protective Casing:          Top of PVC Casing: <u>98.59</u>          Ground Surface:</p> <p><b>WELL MATERIAL DETAILS</b></p> <p>Lock Type: <u>NA</u></p> <p>Curb Box: Length: <u>1.5</u> ft. Diameter: <u>8</u> in.</p> <p>Protective Casing: Length: <u>NA</u> Inside Dia: <u>NA</u></p> <p>Concrete Seal: <u>2</u> gal.</p> <p>Riser Pipe: <u>2.5</u> ft Sched. <u>40</u> Dia: <u>2</u> in.</p> <p>Material Type: <u>PVC</u></p> <p>Well Screen: <u>10</u> ft. slot size: <u>.02</u> in.</p> <p>Coupling Type: <u>Threaded</u></p> <p>Filter Type: <u>Silica Sand</u></p>
<p>NOTES:</p> <ol style="list-style-type: none"> <li>1) NA = not applicable</li> <li>2) BGS = Below Ground Surface</li> <li>3) TPVC= from top of PVC.</li> <li>4) Water levels were taken at the time of development</li> <li>5) Ground water elevation obtained on 4/1/96 = 94.5'</li> </ol>		<p><b>WELL DEVELOPMENT</b></p> <p>Date Developed: <u>3/29/96</u>          Water Level: <u>4.0</u> ft (TPVC)          Bottom of Well: <u>12.5</u> ft(TPVC)          Total Feet of Water: <u>8.5</u>ft          Volume of Water: <u>1.4</u>gal          Method of Development: <u>Bailer</u>          Volume of Water Purged: <u>5</u> gal</p>

# WELL COMPLETION LOG

<b>DAMES &amp; MOORE, Inc.</b>	Project: <u>URAUL Facility.</u> Location <u>Rutland, Vermont</u>	Well No.: <u>MW-2</u> Sheet: <u>1 of 1</u> Project Number: <u>29743-023</u> Chkd. By <u>PJK</u>
Drilling Co.: <u>Cushing &amp; Sons</u> Eng/Geol.: <u>Kevan Carpenter</u>	Well Location: Purpose of Well: Date Started: <u>3/29/96</u>	Southern property edge Monitoring Well Date Completed: <u>3/29/96</u>

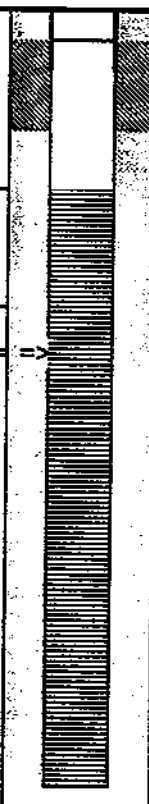
  

<div style="text-align: center;">Ground Surface</div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 40%;">             Bentonite Pellet Seal ==&gt;                PVC Screen ==&gt;               Sand Pack ==&gt; </div> <div style="width: 50%; text-align: center;"> <div style="margin-bottom: 10px;">3</div> <div style="margin-bottom: 10px;">5</div> <div style="margin-bottom: 10px;">13</div> </div> </div>	<div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> <b>DRILLING METHOD</b>              Hollow Stem Auger         </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> <b>REFERENCE ELEVATIONS</b>              Top of Protective Casing:              Top of PVC Casing: <u>99.29</u>              Ground Surface:         </div> <div style="border: 1px solid black; padding: 2px;"> <b>WELL MATERIAL DETAILS</b>               Lock Type: <u>NA</u>               Curb Box: Length: <u>1.5 ft.</u>              Diameter: <u>8 in.</u>               Protective Casing:              Length: <u>NA</u>              Inside Dia: <u>NA</u>               Concrete Seal: <u>2 gal.</u>               Riser Pipe: <u>2.5 ft</u>              Sched. <u>40</u>              Dia: <u>2 in.</u>               Material Type: <u>PVC</u>               Well Screen: <u>10 ft.</u>              slot size: <u>.02 in.</u>               Coupling Type: <u>Threaded</u>               Filter Type: <u>Silica Sand</u> </div>
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<b>NOTES:</b> <ol style="list-style-type: none"> <li>1) NA = not applicable</li> <li>2) BGS = Below Ground Surface</li> <li>3) TPVC= from top of PVC.</li> <li>4) Water levels were taken at the time of development</li> <li>5) Ground water elevation obtained on 4/1/96 = 94.71'</li> </ol>	<div style="border: 1px solid black; padding: 2px;"> <b>WELL DEVELOPMENT</b>              Date Developed: <u>3/29/96</u>              Water Level: <u>4.49 ft (TPVC)</u>              Bottom of Well: <u>12.5(TPVC)</u>              Total Feet of Water: <u>8.01ft</u>              Volume of Water: <u>1.3gal</u>              Method of Development: <u>Bailer</u>              Volume of Water Purged: <u>5 gal</u> </div>
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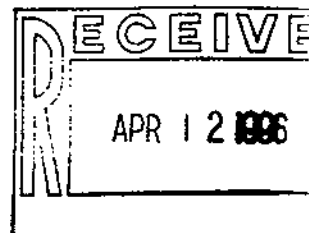
# WELL COMPLETION LOG

<b>DAMES &amp; MOORE, Inc.</b>	Project: <u>UHAUL Facility.</u> Location <u>Rutland, Vermont</u>	Well No.: <u>MW-3</u> Sheet: <u>1 of 1</u> Project Number: <u>29743-023</u> Chkd. By: <u>PJK</u>
Drilling Co.: <u>Cushing &amp; Sons</u> Eng/Geol.: <u>Kevan Carpenter</u>	Well Location: Purpose of Well: Date Started: <u>3/29/96</u>	West of former UST's Monitoring Well Date Completed: <u>3/29/96</u>
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p>Ground Surface ==&gt;</p> <p>Bentonite Pellet Seal ==&gt;</p> <p>3</p> <p>5</p> <p>PVC Screen ==&gt;</p> <p>Sand Pack ==&gt;</p> <p>13</p> </div>  </div>		<p><b>DRILLING METHOD</b> Hollow Stem Auger</p> <p><b>REFERENCE ELEVATIONS</b>          Top of Protective Casing:          Top of PVC Casing: <u>99.28</u>          Ground Surface:</p> <p><b>WELL MATERIAL DETAILS</b></p> <p>Lock Type: <u>NA</u></p> <p>Curb Box: Length: <u>1.5 ft.</u> Diameter: <u>8 in.</u></p> <p>Protective Casing: Length: <u>NA</u> Inside Dia: <u>NA</u></p> <p>Concrete Seal: <u>2 gal.</u></p> <p>Riser Pipe: <u>2.5 ft</u> Sched. <u>40</u> Dia: <u>2 in.</u></p> <p>Material Type: <u>PVC</u></p> <p>Well Screen: <u>10 ft.</u> slot size: <u>.02 in.</u></p> <p>Coupling Type: <u>Threaded</u></p> <p>Filter Type: <u>Silica Sand</u></p>
<p><b>NOTES:</b></p> <ol style="list-style-type: none"> <li>1) NA = not applicable</li> <li>2) BGS = Below Ground Surface</li> <li>3) TPVC= from top of PVC.</li> <li>4) Water levels were taken at the time of development</li> <li>5) Ground water elevation obtained on 4/1/96 = 95.3'</li> </ol>		<p><b>WELL DEVELOPMENT</b></p> <p>Date Developed: <u>3/29/96</u></p> <p>Water Level: <u>4.01 ft (TPVC)</u></p> <p>Bottom of Well: <u>12.5(TPVC)</u></p> <p>Total Feet of Water: <u>8.49ft</u></p> <p>Volume of Water: <u>1.4 gal</u></p> <p>Method of Development: <u>Bailer</u></p> <p>Volume of Water Purged: <u>5 gal</u></p>

**APPENDIX B**  
**GROUND WATER ANALYTICAL REPORT**

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive  
Westborough, Massachusetts 01581-1019  
(508) 898-9220

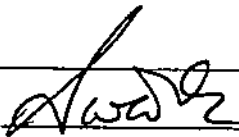


MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

CERTIFICATE OF ANALYSIS

Client: Dames & Moore Env. Consultants      Laboratory Job Number: L9602010  
Address: 5 Industrial Way      Invoice Number: 82224  
Salem, NH 03079      Date Received: 03-APR-96  
Attn: Kevin Carpenter      Date Reported: 10-APR-96  
Project Number: 27946-023      Delivery Method: Alpha  
Site: UHAUL / South Main St.

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L9602010-01	MW-1	Rutland, VT
L9602010-02	MW-2	Rutland, VT
L9602010-03	MW-3	Rutland, VT

Authorized by: 

Scott McLean - Laboratory Director

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9602010-01

Date Collected: 01-APR-96

MW-1

Date Received : 03-APR-96

Sample Matrix: WATER

Date Reported : 10-APR-96

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2 Vial, 2 Amber Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Aromatic Volatile Organics				1	8020	04-Apr	SF
Benzene	ND	ug/l	1.0				
Toluene	ND	ug/l	1.0				
Ethylbenzene	ND	ug/l	1.0				
Xylenes	ND	ug/l	1.0				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Methyl tert butyl ether	ND	ug/l	1.0				
Hydrocarbon Scan GC 8100 Modified				1	8100M	03-Apr 05-Apr	DB
Mineral Spirits	ND	mg/l	1.0				
Gasoline	ND	mg/l	1.0				
Fuel Oil #2/Diesel	ND	mg/l	1.0				
Fuel Oil #4	ND	mg/l	1.0				
Fuel Oil #6	ND	mg/l	1.0				
Motor Oil	ND	mg/l	1.0				
Kerosene	ND	mg/l	1.0				
SURROGATE RECOVERY							
o-Terphenyl	102.	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9602010-02

Date Collected: 01-APR-96

MW-2

Date Received : 03-APR-96

Sample Matrix: WATER

Date Reported : 10-APR-96

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2 Vial, 2 Amber Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
<hr/>							
Aromatic Volatile Organics				1	8020		04-Apr SF
Benzene	ND	ug/l	1.0				
Toluene	ND	ug/l	1.0				
Ethylbenzene	ND	ug/l	1.0				
Xylenes	ND	ug/l	1.0				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Methyl tert butyl ether	ND	ug/l	1.0				
<hr/>							
Hydrocarbon Scan GC 8100 Modified				1	8100M		03-Apr 05-Apr DB
Mineral Spirits	ND	mg/l	1.0				
Gasoline	ND	mg/l	1.0				
Fuel Oil #2/Diesel	ND	mg/l	1.0				
Fuel Oil #4	ND	mg/l	1.0				
Fuel Oil #6	ND	mg/l	1.0				
Motor Oil	ND	mg/l	1.0				
Kerosene	ND	mg/l	1.0				
<hr/>							
SURROGATE RECOVERY							
o-Terphenyl	100.	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9602010-03

Date Collected: 01-APR-96

MW-3

Date Received : 03-APR-96

Sample Matrix: WATER

Date Reported : 10-APR-96

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2 Vial, 2 Amber Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Aromatic Volatile Organics				1	8020	05-Apr	SF
Benzene	ND	ug/l	1.0				
Toluene	ND	ug/l	1.0				
Ethylbenzene	ND	ug/l	1.0				
Xylenes	ND	ug/l	1.0				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Methyl tert butyl ether	ND	ug/l	1.0				
Hydrocarbon Scan GC 8100 Modified				1	8100M	03-Apr 05-Apr	DB
Mineral Spirits	ND	mg/l	1.0				
Gasoline	ND	mg/l	1.0				
Fuel Oil #2/Diesel	ND	mg/l	1.0				
Fuel Oil #4	ND	mg/l	1.0				
Fuel Oil #6	ND	mg/l	1.0				
Motor Oil	ND	mg/l	1.0				
Kerosene	ND	mg/l	1.0				
SURROGATE RECOVERY							
o-Terphenyl	103.	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I



ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L9602010

Parameter	MS %	MSD %	RPD
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Volatile Organics Spike Recovery by GC MS/MSD for sample(s) 01-03

1,1-Dichloroethene	92	82	11
Trichloroethene	93	88	6
Chlorobenzene	88	89	1
Benzene	86	86	0
Toluene	84	85	1
Ethylbenzene	87	86	1

ALPHA ANALYTICAL LABORATORIES  
ADDENDUM I

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REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. 1986.

GLOSSARY OF TERMS AND SYMBOLS

REF Reference number in which test method may be found.

METHOD Method number by which analysis was performed.

ID Initials of the analyst.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.



SALEM, NH

CHAIN-OF-CUSTODY RECORD

[illegible]